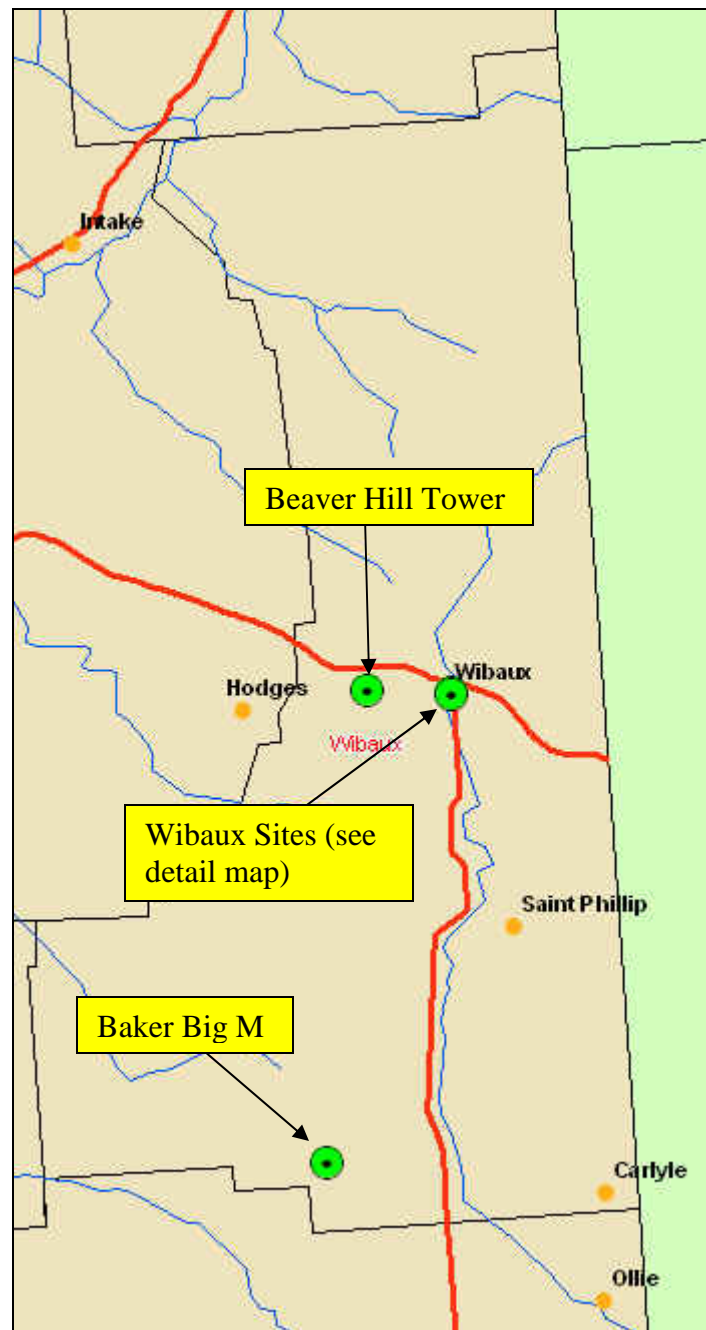
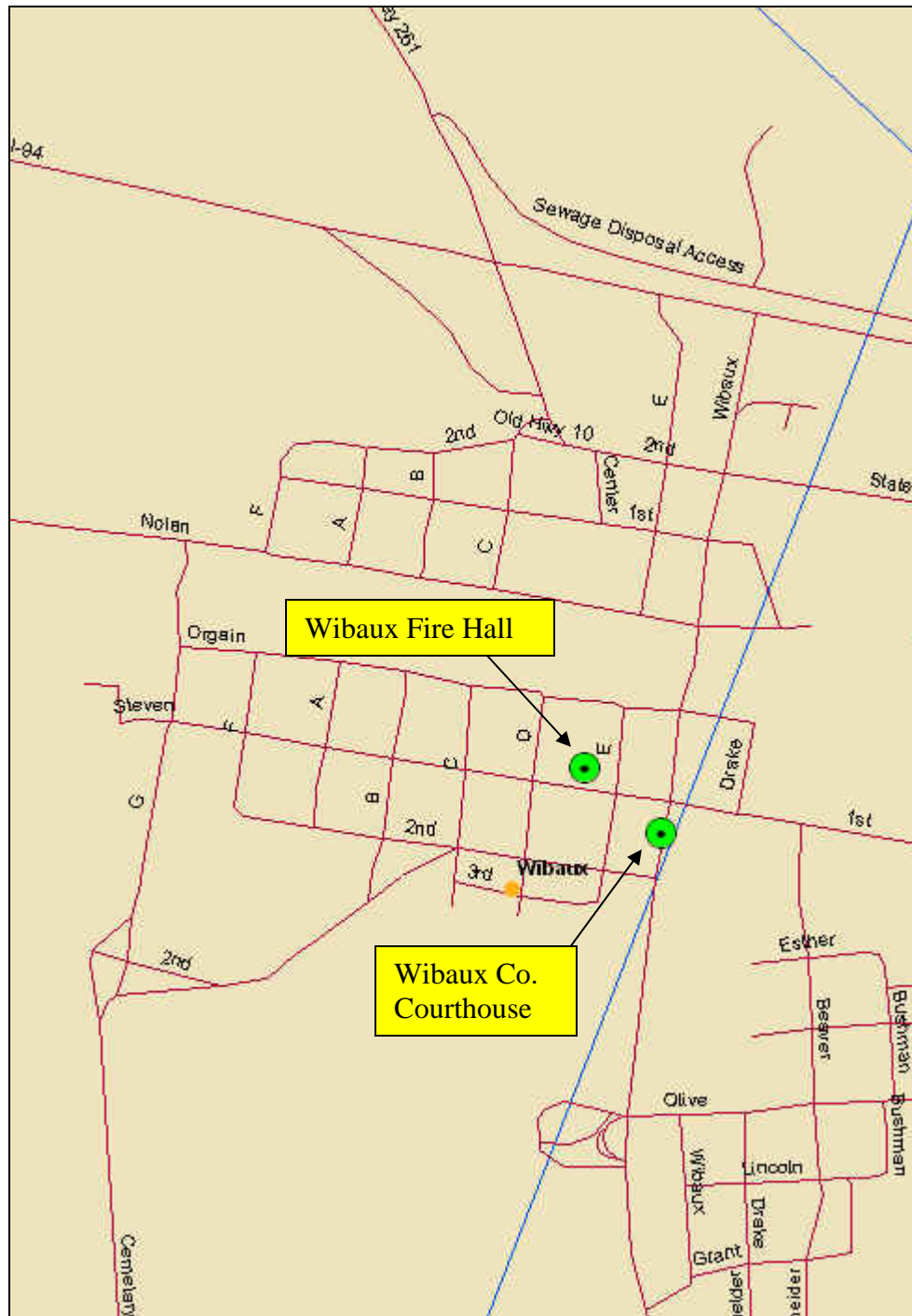


### 4.3.13 Wibaux County



**Figure 58 – Wibaux County Antenna Sites**



**Figure 59 – Detail Of Wibaux Antenna Sites**

**Site Name:** Baker Big M Tower



**Area:** Baker, MT

**Location:** 18m N on Highway 7, then 5m W on Cabin Creek Road.

**Land Owner:** Glenn Miller

**Ground Elevation:** 3322'

**Latitude:** N46 41' 09"

**Longitude:** W104 20' 11.8"

**Status:** In Use

**Rent:**

**Tower Height:** 480'

**Building Type:** Concrete

**Building Size:** 20x11

**Approximate Space Used (%):**80

**Primary Power:** 120/240 single phase, 175 amp.

**Backup Power:** 12-volt battery backup available.

**Telephone Available?** Yes



**Tower Users:** D&M Water, Mitchell's Oil Field Service, Encore Operating LP, Bridger Pipeline, LLC, Montana Highway Patrol, Williston Basin Interstate Pipeline, Wibaux County (future)

**Is Combiner Used And Describe:** 4 XMTR UHF - Decibel 7Z5223X8, UHF RX combiner - Macom F450-6-4, 2 XMTR UHF - Decibel DB4382B

**General Comments:** All equipment is mounted in open racks.

**Survey Completed By:** TAB Electronics

**Completed Date:** Jun-05

**Tower Manufacturer:** Rohn

**Tower Model:** 80

**Tower Owner:** Glenn Miller

**Age (Years):**

**Tower Type:** Guyed

**Fall Protection:** None

**Climbing Device:** Step Bolts

**# Of Guy Wires:** 18

**# Of Legs:** 3

**Leg Spacing:** 41"

**Grounding System:** Multiple ground rods at base

**Other Towers Nearby?**

**Access In Summer:** 2-wheel Drive

**Access In Winter:** 4-wheel Drive

**Criticality:** Extremely Critical

**Meets FCC OET 65?**

**Meets Antenna Loading?**

**Microwave In Use?** No

**Describe:**

**Microwave Capable?** Yes

**Describe:**

**Radio 1:** UHF Link

**Antenna Type:** TX - open dipole, RX - Fiberglass

**Antenna Height:** TX - 260', RX - 480-500'

**Frequencies In Use:** TX - 452.100, RX - 457.100

**User Agency:** D&M Water

**Filter, Duplexer, Etc.:** No transmit filter. Rcvr to Macom RX combiner

**P25?** Unknown

**Other:**

**Radio 2:** Base

**Antenna Type:** D212-3, open dipole array

**Antenna Height:** 450-470'

**Frequencies In Use:** 47.680

**User Agency:** D&M Water

**Filter, Duplexer, Etc.:** None



**P25?** Unknown

**Other:**

**Radio 3:** Repeater

**Antenna Type:** TX - Fiberglass, RX - Fiberglass

**Antenna Height:** TX - 455-475', RX - 480-500'

**Frequencies In Use:** TX - 451.775, RX - 456.775

**User Agency:** Mitchell's Oil Field Service

**Filter, Duplexer, Etc.:** TX - Macom 4-filter combiner, RX - Macom F450-6-4

**P25?** Unknown

**Other:** Model# 7Z5223X8

**Radio 4:** Repeater

**Antenna Type:** TX - Fiberglass, RX - Fiberglass

**Antenna Height:** TX - 260-280', RX - 480-500'

**Frequencies In Use:** TX - 153.545, RX - 158.280

**User Agency:** Bridger Pipeline, LLC

**Filter, Duplexer, Etc.:** TX - Decibel DB4050 8-cavity, RX - TXXR Systems 28-37-11 6-cavity

**P25?** Unknown

**Other:** Separate TX/RX antenna shared with MHP

**Radio 5:** Repeater

**Antenna Type:** TX - Fiberglass, RX - Fiberglass

**Antenna Height:** TX - 260-280', RX - 480-500'

**Frequencies In Use:** TX - 154.920, RX - 155.550

**User Agency:** Montana Highway Patrol

**Filter, Duplexer, Etc.:** TX - Decibel DB4050 8-cavity, RX - TXXR Systems 28-37-11 6-cavity

**P25?** Unknown

**Other:** Separate TX/RX antenna shared with Brider Pipeline

**Radio 6:** Scada

**Antenna Type:** Fiberglass

**Antenna Height:** 480'

**Frequencies In Use:** 928.10625, 952.10625

**User Agency:** Williston Basin Interstate Pipeline

**Filter, Duplexer, Etc.:** None

**P25?** Unknown

**Other:**

**Radio 7:** UHF Scada Repeater

**Antenna Type:** TX - DB411 open dipole, RX - Fiberglass

**Antenna Height:** TX - 65-75', RX - 480-500'

**Frequencies In Use:** TX - 452.350, RX - 457.350

**User Agency:** Encore Operating LP



**Filter, Duplexer, Etc.:** TX - Decibel DB4382B, RX - Macom Combiner  
**P25?** Unknown  
**Other:**

**Radio 8:** UHF Scada Repeater  
**Antenna Type:** TX - DB411 open dipole, RX - Fiberglass  
**Antenna Height:** TX - 65-75', RX - 480-500'  
**Frequencies In Use:** TX - 452.250, RX - 457.250  
**User Agency:** Encore Operating LP  
**Filter, Duplexer, Etc.:** TX - Decibel DB4382B, RX - Macom Combiner  
**P25?** Unknown  
**Other:**

**Radio 9:** UHF Scada Repeater  
**Antenna Type:** TX - Open dipole array, RX - Fiberglass  
**Antenna Height:** TX - 435-455', RX - 480-500'  
**Frequencies In Use:** TX - 452.225, RX - 457.225  
**User Agency:** Encore Operating LP  
**Filter, Duplexer, Etc.:** TX - None, RX - Macom Combiner  
**P25?** Unknown  
**Other:**

**Radio 10:** Repeater  
**Antenna Type:** Fiberglass stick  
**Antenna Height:** 480-490'  
**Frequencies In Use:** TX - 854.8625, RX - 809.8625  
**User Agency:** Bridger Pipeline, LLC  
**Filter, Duplexer, Etc.:** Decibel TDF 6110A, 2-cavity duplexer  
**P25?** Unknown  
**Other:**

**Radio 11:** Link - 72 MHz  
**Antenna Type:** Yagi  
**Antenna Height:** 105'  
**Frequencies In Use:** TX - 72.340, RX - 75.860  
**User Agency:** Encore Operating, LLP  
**Filter, Duplexer, Etc.:** Decibel DB4038 4-cavity  
**P25?** Unknown  
**Other:**

**Radio 12:** Base  
**Antenna Type:** Figure 8 open dipole  
**Antenna Height:** 135'  
**Frequencies In Use:** 48.640



**User Agency:** Encore Operating, LLP

**Filter, Duplexer, Etc.:** None

**P25?** Unknown

**Other:**

**Radio 13:** FXO Link

**Antenna Type:** TX - Fiberglass, RX - Fiberglass

**Antenna Height:** TX - 455-475', RX - 480-500'

**Frequencies In Use:** TX - 452.650, RX - 457.650

**User Agency:** Encore Operating, LLP

**Filter, Duplexer, Etc.:** TX - Macom 4TX combiner, RX - Macom

**P25?** Unknown

**Other:** Decibel 7Z5223X8, RX Combiner F450-6-4

**Radio 14:** Base (Scada)

**Antenna Type:** TX - Fiberglass, RX - Fiberglass

**Antenna Height:** TX - 455-475', RX - 480-500'

**Frequencies In Use:** TX - 453.500, RX - 458.500

**User Agency:** Bridger Pipeline, LLC

**Filter, Duplexer, Etc.:** TX - Macom 4TX combiner, RX - Macom

**P25?** Unknown

**Other:** Decibel 7Z5223X8, RX Combiner F450-6-4

**Radio 15:** Repeater (not yet installed)

**Antenna Type:** Not yet installed

**Antenna Height:** close to top

**Frequencies In Use:** TX - 158.895, RX - 156.015

**User Agency:** Wibaux County

**Filter, Duplexer, Etc.:**

**P25?** Unknown

**Other:**



**Site Name:** Beaver Hill Tower



**Area:** Wibaux, MT

**Location:** Beaver Hill

**Land Owner:** Home On The Range

**Ground Elevation:** 2900'

**Latitude:** W46 59' 30.2"

**Longitude:** W104 16' 05.1"

**Status:** In Use

**Rent:**

**Tower Height:** 90'

**Building Type:** Concrete walls, wood frame top.

**Building Size:** 6.5x8

**Approximate Space Used (%):** 30

**Primary Power:** 120/240 single phase, 50A disconnect





**Backup Power:** User-supplied batteries  
**Telephone Available?** No  
**Tower Users:** Wibaux Co. Sheriff, Wibaux Co. Road Dept.  
**Is Combiner Used And Describe:** No  
**General Comments:**  
**Survey Completed By:** TAB Electronics  
**Completed Date:** Jun-05  
**Tower Manufacturer:**  
**Tower Model:**  
**Tower Owner:** Wibaux Co.  
**Age (Years):**  
**Tower Type:** Guyed  
**Fall Protection:** None  
**Climbing Device:** Tower Rungs - Steel Tube or Angle  
**# Of Guy Wires:** 15  
**# Of Legs:** 3  
**Leg Spacing:** 12"  
**Grounding System:** 1 ground rod  
**Other Towers Nearby?** No  
**Access In Summer:** 2-wheel Drive  
**Access In Winter:** 2-wheel Drive  
**Criticality:** Extremely Critical  
**Meets FCC OET 65?**  
**Meets Antenna Loading?**  
**Microwave In Use?** No  
**Describe:**  
**Microwave Capable?** Unknown  
**Describe:** Could perhaps support small grid dishes.

**Radio 1:** Repeater  
**Antenna Type:** 4-element open dipole arrays (2)  
**Antenna Height:** 90-110' TX, 69-89' RX  
**Frequencies In Use:** TX 158.895, RX 156.015  
**User Agency:** Wibaux Co. Road  
**Filter, Duplexer, Etc.:** WACOM WP639 4-cavity BPBR  
**P25?** Yes  
**Other:** Transmits on top antenna and receives on bottom antenna

**Radio 2:** Repeater  
**Antenna Type:** 4-element open dipole arrays (2)  
**Antenna Height:** 90-110' TX, 69-89' RX  
**Frequencies In Use:** TX 155.670, RX 154.950  
**User Agency:** Wibaux Co. Sheriff  
**Filter, Duplexer, Etc.:** WACOM WP639 4-cavity BPBR



**P25?** Yes

**Other:** Transmits on top antenna and receives on bottom antenna

**Site Name:** Wibaux County Courthouse



**Area:** Wibaux, MT

**Location:** 200 S. Wibaux St.

**Land Owner:** Wibaux County

**Ground Elevation:** 2645'

**Latitude:** W46 59' 08.7"

**Longitude:** W104 11' 17.9"

**Status:** In Use

**Rent:**

**Tower Height:** 60'

**Building Type:** Brick

**Building Size:**

**Approximate Space Used (%):**

**Primary Power:** 120/240 single phase

**Backup Power:** None

**Telephone Available?** Yes

**Tower Users:** Wibaux Co. Sheriff, Wibaux Co. Road Dept.

**Is Combiner Used And Describe:** No

**General Comments:**



**Survey Completed By:** TAB Electronics

**Completed Date:** Jun-05

**Tower Manufacturer:**

**Tower Model:** Bx Type

**Tower Owner:** Wibaux Co.

**Age (Years):**

**Tower Type:** Free Standing

**Fall Protection:** None

**Climbing Device:** Tower Rungs - Steel Tube or Angle

**# Of Guy Wires:** 0

**# Of Legs:** 3

**Leg Spacing:** 26"

**Grounding System:** 1 ground rod

**Other Towers Nearby?** No

**Access In Summer:** 2-wheel Drive

**Access In Winter:** 2-wheel Drive

**Criticality:** Critical

**Meets FCC OET 65?**

**Meets Antenna Loading?**

**Microwave In Use?** No

**Describe:**

**Microwave Capable?** Unknown

**Describe:** Could perhaps support small grid-type reflectors such as paralectors, but not solid, large dishes.

**Radio 1:** Base

**Antenna Type:** 4-element open dipole array

**Antenna Height:** 63-85'

**Frequencies In Use:** 155.670, 154.950, 158.895, 156.015, 153.860, 155.115, 155.160, 155.220, 155.385

**User Agency:** Wibaux Co. Sheriff

**Filter, Duplexer, Etc.:** None

**P25?** No

**Other:**

**Radio 2:** Base

**Antenna Type:** 4-element open dipole array

**Antenna Height:** 23-45'

**Frequencies In Use:** 155.670, 154.950, 158.895, 156.015, 153.860, 155.115, 155.160, 155.220, 155.385

**User Agency:** Wibaux Co.

**Filter, Duplexer, Etc.:** None

**P25?** No

**Other:**



**Radio 3:** Base

**Antenna Type:** PD 1142

**Antenna Height:** 23-43'

**Frequencies In Use:** 39.82, 39.88

**User Agency:** Wibaux Co. Sheriff

**Filter, Duplexer, Etc.:** None

**P25?** No

**Other:**

**Site Name:** Wibaux Fire Hall



**Area:** Wibaux, MT

**Location:** Downtown Wibaux, 1st. Ave. S.

**Land Owner:** Town of Wibaux & Wibaux County

**Ground Elevation:** 2650'

**Latitude:** W46 59' 12"

**Longitude:** W104 11' 23"

**Status:** In Use

**Rent:**

**Tower Height:** 50'

**Building Type:** Steel

**Building Size:**

**Approximate Space Used (%):**

**Primary Power:** 120/240 single phase

**Backup Power:** Must supply own batteries

**Telephone Available?** Yes

**Tower Users:** Wibaux County Road

**Is Combiner Used And Describe:** No

**General Comments:**



**Survey Completed By:** TAB Electronics

**Completed Date:** Jun-05

**Tower Manufacturer:**

**Tower Model:**

**Tower Owner:** Wibaux Fire

**Age (Years):**

**Tower Type:** Wood Pole

**Fall Protection:** None

**Climbing Device:** Step Bolts

**# Of Guy Wires:**

**# Of Legs:**

**Leg Spacing:**

**Grounding System:** Single i/o copper to rods at base of pole.

**Other Towers Nearby?** No

**Access In Summer:** 2-wheel Drive

**Access In Winter:** 2-wheel Drive

**Criticality:** Critical

**Meets FCC OET 65?**

**Meets Antenna Loading?**

**Microwave In Use?** No

**Describe:**

**Microwave Capable?** No

**Describe:** Could perhaps support small grid-type reflectors such as paralectors, but not solid, large dishes.

**Radio 1:** Base

**Antenna Type:** PD 220

**Antenna Height:** 50-72'

**Frequencies In Use:** 158.895, 156.015

**User Agency:** Wibaux Co.

**Filter, Duplexer, Etc.:** None

**P25?** No

**Other:**